



Name _____ Date _____

Practice: For use after Lesson 2.1, Algebra 2 with Trigonometry

WS #1

Literal Equations and Formulas

Solve for x and indicate any restrictions on the values of the variables.

1. $x + e = f$ _____

2. $mx = n$ _____

3. $\frac{x}{t} = k, t \neq 0$ _____

4. $ax - b = c$ _____

Solve each formula for the indicated variable. Indicate any restrictions on the values of the variables.

5. $P = 4s$, for s _____

6. $I = prt$, for t _____

7. $V = \frac{1}{3}Bh$, for B _____

8. $E = \frac{1}{2}mv^2$, for m _____

Solve for x and indicate any restrictions on the values of the variables.

9. $ax - b = cx + d$ _____

10. $5ax - c = 4c + ax$ _____

11. $p(x - 1) + 7 = r(x - 4)$ _____

Solve each formula for the indicated variable. Indicate any restrictions on the values of the variables.

12. $A = p + prt$, for p _____

13. $A = \frac{1}{2}h(b_1 + b_2)$, for b_1 _____

14. $E = I(R + r)$, for r _____

Applications

15. **Geometry** The surface area S of a rectangular solid is given by the formula $S = 2(lw + wh + lh)$, where l , w , and h represent the length, width, and height of the rectangular solid, respectively. Solve for l .
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MIXED PRACTICE

Solve for the indicated variable. Indicate any restrictions on the values of the variables.

16. $nx + c = 3$, for x _____

17. $P = 2(l + w)$, for w _____